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PRIORITY  INFO

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FROM

REF:  SENT 22 JUN 66

1. PHYSICAL INSPECTION OF ENGINE 611434 REVEALS A HIGH DEGREE OF IMPACT DAMAGE. BOTH INTERMEDIATE AND DIFFUSER CASES WERE SPLIT OPEN. THE N2 GEARBOX WAS SHEARED OFF AND BROKEN IN SEVERAL PIECES. ALL N2 ACCESSORIES WERE BROKEN OFF FROM THEIR MOUNTING FLANGES. THE COMBUSTION CHAMBER CASE WAS CAVED IN DUE TO IMPACT DAMAGE AND WAS REMOVED BY CUTTING WITH A WELDING TORCH. REMOVAL OF THE BURNER CANS REVEALED THE FOLLOWING:

A. ALL FIRST STAGE TURBINE NOZZLE GUIDE BANES WERE IN THE BOTTOM OF THE NOZZLE CASE, A FEW WERE FOUND IN THE NBR 4 AND NBR 5 BURNER CANS.

B. FOUR ADJACENT FIRST STAGE TURBINE DISK CHRISTMAS TREE RETAINING SEGMENTS FAILED RELEASING FIVE FIRST STAGE TURBINE BLADES. THE REMAINING FIRST STAGE TURBINE BLADES HAVE APPROXI-

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S E C R E T

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MATELY ONE TO ONE AND A HALF INCHES OF BLADE TIPS MISSING.  
DISK FAILURE APPEARS SIMILAR TO FAILURE IN ENGINE 661515.

C. SECOND AND THIRD STAGE TURBINE BLADES ALL HAVE  
APPROXIMATELY ONE TO TWO INCHES OF BLADE TIPS MISSING, THE  
COMPLTE TURBINE SECTION HAS HEAVY FOD TYPE DAMAGE.

D. FROM WHAT COULD BE INSPECTED THE FIFTEENTH STAGE EXIT  
VANES WERE INTACT AND APPEARED SATISFACTORY.

E. REMOVAL OF THE NBR 6 BEARING HEATSHIELD DISHPAN  
REVEALED BOTH OIL PRESSURE AND SCAGENG TUBES BROKEN OFF. THIS  
APPEARS TO BE THE RESULT OF ENGINE VIBRATION FOLLOWING DISK  
FAILURE.

2. THE ENGINE IS NOW READY FOR AIRLIFT TO PWA EAST COAST  
FOR FURTHER INVESTIGATION. THE BURNER CANS, N2 GEARBOX  
SECTIONS AND ENGINE ACCESSORIES ARE BOXED AND WILL ACCOMPANY  
THE ENGINE. THE REMAINING PARTS OF THE FIVE FIRST STAGE  
TURBINE BLADES ARE IN A BAG TIED TO THE FUEL NOZZLES.

S E C R E T TOR: 290538Z JUN 66

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